

NNN		NNN	CCCCCCCCCCCC	PPPPPPPPPPPP	
NNN		NNN	CCCCCCCCCCCC	PPPPPPPPPPPP	
NNN		NNN	CCCCCCCCCCCC	PPPPPPPPPPPP	
NNN		NNN	CCC	PPP	PPP
NNN		NNN	CCC	PPP	PPP
NNN		NNN	CCC	PPP	PPP
NNNNNN		NNN	CCC	PPP	PPP
NNNNNN		NNN	CCC	PPP	PPP
NNNNNN		NNN	CCC	PPP	PPP
NNN	NNN	NNN	CCC	PPPPPPPPPPPP	
NNN	NNN	NNN	CCC	PPPPPPPPPPPP	
NNN	NNN	NNN	CCC	PPPPPPPPPPPP	
NNN	NNNNNN	NNN	CCC	PPP	
NNN	NNNNNN	NNN	CCC	PPP	
NNN	NNNNNN	NNN	CCC	PPP	
NNN	NNN	NNN	CCC	PPP	
NNN	NNN	NNN	CCC	PPP	
NNN	NNN	NNN	CCC	PPP	
NNN	NNN	NNN	CCCCCCCCCCCC	PPP	
NNN	NNN	NNN	CCCCCCCCCCCC	PPP	
NNN	NNN	NNN	CCCCCCCCCCCC	PPP	

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NN      NN      CCCCCCCC  PPPPPPPP  SSSSSSSS  TTTTTTTTTT  AAAAAA  MM      MM  TTTTTTTTTT  RRRRRRRR
NN      NN      CCCCCCCC  PPPPPPPP  SSSSSSSS  TTTTTTTTTT  AAAAAA  MM      MM  TTTTTTTTTT  RRRRRRRR
NN      NN      CC        PP        PP  SS        TT        AA      AA  MMMM  MMMM  TT        RR      RR
NN      NN      CC        PP        PP  SS        TT        AA      AA  MMMM  MMMM  TT        RR      RR
NNNN    NN      CC        PP        PP  SS        TT        AA      AA  MM  MM  MM      TT        RR      RR
NNNN    NN      CC        PP        PP  SS        TT        AA      AA  MM  MM  MM      TT        RR      RR
NN      NN      CC        PPPPPPPP  SSSSSS    TT        AA      AA  MM      MM      TT        RRRRRRRR
NN      NN      CC        PPPPPPPP  SSSSSS    TT        AA      AA  MM      MM      TT        RRRRRRRR
NN      NN      CC        PP        SS        TT        AAAAAAAAAA MM      MM      TT        RR      RR
NN      NN      CC        PP        SS        TT        AAAAAAAAAA MM      MM      TT        RR      RR
NN      NN      CC        PP        SS        TT        AA      AA  MM      MM      TT        RR      RR
NN      NN      CC        PP        SS        TT        AA      AA  MM      MM      TT        RR      RR
NN      NN      CCCCCCCC  PP        SSSSSSSS  TT        AA      AA  MM      MM      TT        RR      RR
NN      NN      CCCCCCCC  PP        SSSSSSSS  TT        AA      AA  MM      MM      TT        RR      RR

```

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LL      I I I I I I  SSSSSSSS
LL      I I I I I I  SSSSSSSS
LL      II          SS
LL      II          SS
LL      II          SS
LL      II          SS
LL      II          SSSSSS
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LL      I I I I I I  SSSSSSSS
LLLLLLLLLLLL I I I I I I  SSSSSSSS
LLLLLLLLLLLL I I I I I I  SSSSSSSS

```



```
0001 0 %TITLE 'X.25 Trace Module Parsing'
0002 0 MODULE NCPSTAMTR (IDENT = 'V04-000',LIST(NOOBJECT)) =
0003 1 BEGIN
0004 1
0005 1
0006 1 *****
0007 1 *
0008 1 *   COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
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0024 1 *   SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.
0025 1 *
0026 1 *
0027 1 *****
0028 1
0029 1
0030 1 ++
0031 1 FACILITY:      Network Control Program (NCP)
0032 1
0033 1 ABSTRACT:
0034 1
0035 1     States and data for the parsing of NCP X.25 Trace module parameters
0036 1
0037 1 ENVIRONMENT:  VAX/VMS Operating System
0038 1
0039 1 AUTHOR:      Bob Grosso July 1982
0040 1
0041 1 MODIFIED BY:
0042 1
0043 1     V03-005 RPG0005      Bob Grosso      04-Nov-1982
0044 1     Correct SET X-T K T STATE ON from parsing STA instead
0045 1     of TST.
0046 1
0047 1     V03-004 RPG0004      Bob Grosso      15-Sep-1982
0048 1     Flag presence of qualifier on command line so that
0049 1     the ALL check in NCPVRBACT will work properly.
0050 1     Make a noise word of X25-T in SET/CLEAR tracepoint.
0051 1
0052 1     V03-003 RPG0003      Bob Grosso      03-Sep-1982
0053 1     Fix parameter ranges in some prompt strings.
0054 1
0055 1     V03-002 TMH0002      Tim Halvorsen    16-Aug-1982
0056 1     Fix PCL table so that literal parameters such as STATE
0057 1     as coded as NUMB rather than LITB, since that is the
```

: 58
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0058 1 |
0059 1 |
0060 1 |
0061 1 |
0062 1 |
0063 1 |
0064 1 |
0065 1 |
0066 1 |
0067 1 |
0068 1 |
0069 1 |
0070 1 |
0071 1 |--

way byte values are put into the NICE message. (In a
PCL list, LITB means store the parameter code, but no
value - used in CLEAR/PURGE).
Fix so that TRACEPOINT STATE is distinguished from
X25-TRACE STATE, and so that a different parameter code
is sent for each.
Fix CLEAR TPT PBK to correctly indicate that it is a TKN
rather than a LITB, so that the tracepoint name is sent
correctly in the NICE message.

V03-001 RPG0001 Bob Grosso 03-Aug-1982
Enhance prompting for ALL


```

: 73      0072 1 %SBTTL 'Definitions'
: 74      0073 1
: 75      0074 1
: 76      0075 1  INCLUDE FILES:
: 77      0076 1
: 78      0077 1
: 79      0078 1      LIBRARY 'LIB$:NMALIBRY';
: 80      0079 1      LIBRARY 'LIB$:NCPLIBRY';
: 81      0080 1      LIBRARY 'SYS$LIBRARY:TPAMAC';
: 82      0081 1
: 83      0082 1
: 84      0083 1  EXTERNAL REFERENCES:
: 85      0084 1
: 86      0085 1
: 87      0086 1      ACT_DFN          ! Action routine externals
: 88      0087 1
: 89      0088 1  EXTERNAL
: 90      0089 1      NCP$GL_QUALPRS;    ! Flag presence of qualifier
: 91      0090 1
: 92      0091 1
: 93      0092 1  OWN storage
: 94      0093 1
: 95      0094 1
: 96      0095 1  OWN
: 97      0096 1      TPT_PARAMS;        ! True if tracepoint parameters
: 98      0097 1                        ! False if trace-wide parameters
: 99      0098 1
: 100     0099 1
: 101     0100 1  LITERALS
: 102     0101 1
: 103     0102 1
: 104     0103 1  LITERAL
: 105     0104 1      QUALPRESENT = 1;    ! Flag presence of qualifier on command line
: 106     0105 1
```

```
108      0106 1 %SBTTL 'Set Parameter blocks'
109      0107 1
110      0108 1
111      0109 1
112      0110 1
113      0111 1
114      P 0112 1 BUILD_PCL
115      P 0113 1
116      P 0114 1 (MTR, ! Module X25-TRACE
117      P 0115 1
118      P 0116 1 TPT, TKN, PCXT_TPT,
119      P 0117 1
120      P 0118 1 STA, NUMB, PCXT_STA,
121      P 0119 1 BSZ, NUMW, PCXT_BSZ,
122      P 0120 1 MBK, NUMW, PCXT_MBK,
123      P 0121 1 FNM, TKN, PCXT_FNM,
124      P 0122 1 MBF, NUMW, PCXT_MBF,
125      P 0123 1 CPL, NUMW, PCXT_CPL,
126      P 0124 1 MVR, NUMW, PCXT_MVR,
127      P 0125 1
128      P 0126 1 CPS, NUMW, PCXT_CPS,
129      P 0127 1 TST, NUMB, PCXT_TST,
130      P 0128 1
131      P 0129 1 , END, ,
132      P 0130 1 )
133      0131 1
134      0132 1
135      P 0133 1 BUILD_PBK
136      P 0134 1
137      P 0135 1 (MTR, ! Module X25-TRACE
138      P 0136 1
139      P 0137 1 STAON, LITB, NMA$C_STATE_ON, MTR_STA,
140      P 0138 1 STAOFF, LITB, NMA$C_STATE_OFF, MTR_STA,
141      P 0139 1 BSZ, NUMW,
142      P 0140 1 MBK, NUMW,
143      P 0141 1 FNM, TKN,
144      P 0142 1 MBF, NUMW,
145      P 0143 1 CPL, NUMW,
146      P 0144 1 MVR, NUMW,
147      P 0145 1 TPT, TKN,
148      P 0146 1 KTP, LITB, NMA$C_ENT_KNO, MTR_TPT, ! Known tracepoints
149      P 0147 1 CPS, NUMW,
150      P 0148 1 TSTON, LITB, NMA$C_STATE_ON, MTR_TST,
151      P 0149 1 TSTOFF, LITB, NMA$C_STATE_OFF, MTR_TST,
152      P 0150 1
153      0151 1 )
154      0152 1
155      0153 1 BIND PDB$G_MTR_ENT = UPLIT BYTE(0, %ASCIC 'X25-TRACE');
156      0154 1
157      P 0155 1 BUILD_SDB
158      0156 1 (MTR, NMA$C_ENT_MOD, MTR_ENT, MTR)
```



```
160      0157 1 %SBTTL 'Clear Parameter blocks'
161      0158 1
162      0159 1
163      0160 1
164      0161 1
165      0162 1
166      P 0163 1 BUILD_PCL
167      P 0164 1
168      P 0165 1 (CTR, ! Module X25-TRACE
169      P 0166 1
170      P 0167 1 TPT, TKN, PCXT_TPT, ,
171      P 0168 1
172      P 0169 1 STA, LITB, PCXT_STA, ,
173      P 0170 1 BSZ, LITB, PCXT_BSZ, ,
174      P 0171 1 MBK, LITB, PCXT_MBK, ,
175      P 0172 1 FNM, LITB, PCXT_FNM, ,
176      P 0173 1 MBF, LITB, PCXT_MBF, ,
177      P 0174 1 CPL, LITB, PCXT_CPL, ,
178      P 0175 1 MVR, LITB, PCXT_MVR, ,
179      P 0176 1
180      P 0177 1 CPS, LITB, PCXT_CPS, ,
181      P 0178 1 TST, LITB, PCXT_TST, ,
182      P 0179 1
183      P 0180 1 , END, , ,
184      P 0181 1
185      0182 1 )
186      0183 1
187      P 0184 1 BUILD_PBK
188      P 0185 1
189      P 0186 1 (CTR, ! Module X25-TRACE
190      P 0187 1
191      P 0188 1 ALL, LITB, 0, VRB_ALL,
192      P 0189 1
193      P 0190 1 STA, LITB, 0, ,
194      P 0191 1 BSZ, LITB, 0, ,
195      P 0192 1 MBK, LITB, 0, ,
196      P 0193 1 FNM, LITB, 0, ,
197      P 0194 1 MBF, LITB, 0, ,
198      P 0195 1 CPL, LITB, 0, ,
199      P 0196 1 MVR, LITB, 0, ,
200      P 0197 1 TPT, TKN, 0, ,
201      P 0198 1 KTP, LITB, NMA$C_ENT_KNO, CTR_TPT, ! Known tracepoints
202      P 0199 1 CPS, LITB, 0, ,
203      P 0200 1 TST, LITB, 0, ,
204      P 0201 1
205      0202 1 )
206      0203 1
207      P 0204 1 BUILD_SDB
208      P 0205 1
209      0206 1 (CTR, NMA$C_ENT_MOD, MTR_ENT, CTR)
```

```
211 0207 1 %SBTTL 'Prompt strings'
212 0208 1
213 0209 1
214 0210 1 Build prompt strings
215 0211 1
216 0212 1
217 0213 1 BIND
218 0214 1
219 P 0215 1 PROMPT_STRINGS
220 P 0216 1 (MTR,
221 P 0217 1
222 P 0218 1 DAT, ' (TRACEPOINT name, or KNOWN): ',
223 P 0219 1 KWN, ' (TRACEPOINTS): ',
224 P 0220 1
225 P 0221 1 STA, 'State (ON or OFF): ',
226 P 0222 1 BSZ, 'Buffer size (1-4096 bytes): ',
227 P 0223 1 MBK, 'Maximum blocks (1-65535): ',
228 P 0224 1 FNM, 'Filename (1-253 characters): ',
229 P 0225 1 MBF, 'Maximum number of buffers (1-255): ',
230 P 0226 1 CPL, 'Global data capture limit (1-65535): ',
231 P 0227 1 MVR, 'Maximum trace file version (1-255): ',
232 P 0228 1 TPT, 'Trace point name (tracepointname.channel): ',
233 P 0229 1 CPS, 'Per-trace capture size (1-65535 bytes): ',
234 P 0230 1 TST, 'Per-trace state (ON or OFF): ',
235 0231 1 ),
236 0232 1
237 P 0233 1 PROMPT_STRINGS
238 P 0234 1 (CTR,
239 P 0235 1
240 P 0236 1 DAT, ' (TRACEPOINT name, or KNOWN): ',
241 P 0237 1 KWN, ' (TRACEPOINTS): ',
242 P 0238 1 ALL, 'All X.25 Trace parameters (Y, N): ',
243 P 0239 1 ALL2, 'All X.25 Trace tracepoint parameters (Y, N): ',
244 P 0240 1
245 P 0241 1 STA, 'State (Y, N): ',
246 P 0242 1 BSZ, 'Buffer size (Y, N): ',
247 P 0243 1 MBK, 'Maximum blocks (Y, N): ',
248 P 0244 1 FNM, 'Filename (Y, N): ',
249 P 0245 1 MBF, 'Maximum number of buffers (Y, N): ',
250 P 0246 1 CPL, 'Global data capture limit (Y, N): ',
251 P 0247 1 MVR, 'Maximum trace file version (Y, N): ',
252 P 0248 1 TPT, 'Trace point name (Y, N): ',
253 P 0249 1 CPS, 'Per-trace capture size (Y, N): ',
254 P 0250 1 TST, 'Per-trace state (Y, N): ',
255 P 0251 1
256 0252 1 );
```



```
: 258 0253 1 %SBTTL 'Declare entry points to TPARSE tables'
: 259 0254 1
: 260 0255 1
: 261 0256 1      |
: 262 0257 1      |      Declare entry points to this TPARSE table
: 263 0258 1      |
: 264 0259 1 $INIT_STATE (NCP$G_STTBL_MTR, NCP$G_KYTBL_MTR);
: 265 0260 1
: 266 0261 1 FORWARD
: 267 0262 1      ST_MTRTPT:      VECTOR [0],      | Set X25-TRACE Tracepoint
: 268 0263 1      ST_CTRTPT:      VECTOR [0],      | Clear X25-TRACE Tracepoint
: 269 0264 1      ST_CTR:      VECTOR [0],      | Clear X25-TRACE
: 270 0265 1
: 271 0266 1 GLOBAL BIND
: 272 0267 1      NCP$G_STTBL_MTRTPT = ST_MTRTPT,
: 273 0268 1      NCP$G_KYTBL_MTRTPT = NCP$G_KYTBL_MTR,
: 274 0269 1      NCP$G_STTBL_CTR = ST_CTR,
: 275 0270 1      NCP$G_KYTBL_CTR = NCP$G_KYTBL_MTR,
: 276 0271 1      NCP$G_STTBL_CTRTPT = ST_CTRTPT,
: 277 0272 1      NCP$G_KYTBL_CTRTPT = NCP$G_KYTBL_MTR;
```

```

279      0273 1 %SBTTL 'SET X25-TRACE Module Parameters'
280      0274 1
281      0275 1
282      0276 1 SET/DEFINE MODULE X25-TRACE parameter states
283      0277 1
284      0278 1
285      P 0279 1 $STATE (ST_MTR,
286      P 0280 1 ((ST_MTR_INIT))
287      0281 1 );
288      P 0282 1 $STATE (
289      P 0283 1 (TPAS_EOS, ST_MTR_PMT_DAT),
290      P 0284 1 (TPAS_LAMBDA, ST_MTR_DAT)
291      0285 1 );
292      0286 1
293      0287 1
294      0288 1 SET TRACEPOINT dispatched from NCPSTAVRB
295      0289 1
296      P 0290 1 $STATE (ST_MTRTPT,
297      P 0291 1 ((ST_MTR_INIT), ST_MTR_DAT_TPT)
298      0292 1 );
299      0293 1
300      P 0294 1 $STATE (ST_MTR_INIT,
301      0295 1 (TPAS_LAMBDA, TPAS_EXIT, ACT$CLRLONG,,, TPT_PARAMS)); ! Assume trace-wide params
302      0296 1
303      0297 1
304      0298 1 Determine which X25 Trace sub-database we are talking about
305      0299 1 (due to grouping restrictions, the command must not mix
306      0300 1 sub-database parameters). The sub-database may be either
307      0301 1 X25-Trace or tracepoint parameters.
308      0302 1
309      0303 1
310      P 0304 1 $STATE (ST_MTR_PMT_DAT,
311      0305 1 (TPAS_LAMBDA,, ACT$PRMPT,,, PMT$G_MTR_DAT));
312      0306 1
313      P 0307 1 $STATE (ST_MTR_DAT, ! Determine whether TRACEPOINT parameters
314      P 0308 1 ('TRACEPOINT', ST_MTR_DAT_TPT),
315      P 0309 1 ('KNOWN', ST_MTR_DAT_KWN),
316      P 0310 1 (TPAS_LAMBDA) ! Else assume TRACE-wide parameters
317      0311 1 );
318      0312 1
319      0313 1
320      0314 1 Prompt for normal Trace parameters
321      0315 1
322      P 0316 1 $STATE (
323      P 0317 1 (TPAS_EOS), ! Start prompting if EOS
324      0318 1 (TPAS_LAMBDA, ST_MTR_PRC)); ! Else try parsing parameters
325      0319 1
326      P 0320 1 PROMPT_STATES
327      P 0321 1 (MTR,
328      P 0322 1
329      0323 1 STA, BSZ, MBK, FNM, MBF, CPL, MVR)
330      0324 1
331      P 0325 1 $STATE (
332      0326 1 (TPAS_LAMBDA, ST_MTR_DOIT));
333      0327 1
334      0328 1
335      0329 1 Prompt for tracepoint parameters

```

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```
336      0330 1 !
337      0331 1
338      P 0332 1 $STATE (ST_MTR_DAT_TPT,
339      0333 1 ((SE_TRCPNT_NAME),, ACT$SAVPRM,QUALPRESENT, NCP$GL_QUALPRS, PBK$G_MTR_TPT));
340      0334 1
341      P 0335 1 $STATE (ST_MTR_PMT_TPT,
342      P 0336 1 (TPAS_EOS),
343      P 0337 1 (TPAS_LAMBDA, ST_MTR_PRC,
344      0338 1 TRUE, TPT_PARAMS));
345      0339 1
346      0340 1
347      P 0341 1 PROMPT_STATES
348      P 0342 1 (MTR,
349      P 0343 1
350      0344 1 CPS, TST)
351      0345 1
352      P 0346 1 $STATE (ST_MTR_DOIT,
353      P 0347 1 (TPAS_EOS, TPAS_EXIT, ACT$VRB_UTILITY, , , SDB$G_MTR),
354      0348 1 );
355      0349 1
356      0350 1
357      0351 1
358      0352 1
359      0353 1
360      P 0354 1 $STATE (ST_MTR_DAT_KWN,
361      0355 1 (TPAS_LAMBDA));
362      0356 1
363      P 0357 1 COMMAND PROMPT
364      P 0358 1 (MTR, KWN, NCP$_INVKEY,
365      P 0359 1
366      P 0360 1 ('TRACEPOINTS', ST_MTR_PMT_TPT, ACT$SAVPRM,,, PBK$G_MTR_KTP),
367      0361 1 )
```

! Start prompting if EOS
! Else try parsing parameters while
! remembering that we are parsing
! tracepoint-specific parameters

Dispatch on KNOWN keyword during prompting


```

369      0362 1
370      0363 1
371      0364 1
372      0365 1
373      0366 1
374      0367 1
375      P 0368 1 $STATE (ST_MTR_PRC,
376      P 0369 1 (TPAS_LAMBDA, ST_TPT_PRC, ACT$TESTLONG,,, TPT_PARAMS),
377      0370 1 (TPAS_LAMBDA));
378      0371 1
379      0372 1
380      0373 1
381      0374 1
382      0375 1
383      P 0376 1 $STATE (
384      P 0377 1 ((SE_ALL), ST_MTR_DOIT),
385      P 0378 1
386      P 0379 1 DISPATCH_STATES
387      P 0380 1 (MTR,
388      P 0381 1
389      P 0382 1 BSZ, 'BUFFER',
390      P 0383 1 CAP, 'CAPTURE',
391      P 0384 1 FNM, 'FILE',
392      P 0385 1 MAX, 'MAXIMUM',
393      P 0386 1 STA, 'STATE',
394      P 0387 1
395      P 0388 1 )
396      P 0389 1
397      P 0390 1 (TPAS_EOS, ST_MTR_DOIT)
398      0391 1 );
399      0392 1
400      0393 1
401      0394 1
402      0395 1
403      0396 1
404      P 0397 1 $STATE (ST_TPT_PRC,
405      P 0398 1
406      P 0399 1 ((SE_ALL), ST_MTR_DOIT),
407      P 0400 1
408      P 0401 1 DISPATCH_STATES
409      P 0402 1 (MTR,
410      P 0403 1
411      P 0404 1 CAP, 'CAPTURE',
412      P 0405 1 TST, 'STATE',
413      P 0406 1
414      P 0407 1 )
415      P 0408 1
416      P 0409 1 (TPAS_EOS, ST_MTR_DOIT)
417      0410 1 );
```



```

: 419      0411 1
: 420      0412 1
: 421      0413 1
: 422      0414 1
: 423      0415 1
: 424      P 0416 1 $STATE (ST_MTR_PRC_KWN,
: 425      0417 1 ((SE_MTR_KWN), ST_MTR_PRC));
: 426      0418 1
: 427      P 0419 1 $STATE (SE_MTR_KWN,
: 428      P 0420 1
: 429      P 0421 1 KEYWORD_STATE
: 430      P 0422 1 (MTR,
: 431      P 0423 1
: 432      P 0424 1 KTP, 'TRACEPOINTS',
: 433      P 0425 1
: 434      0426 1 ));
: 435      0427 1
: 436      0428 1
: 437      0429 1
: 438      0430 1
: 439      0431 1
: 440      P 0432 1 $STATE (ST_MTR_PRC_MAX,
: 441      P 0433 1
: 442      P 0434 1 DISPATCH_STATES
: 443      P 0435 1 (MTR,
: 444      P 0436 1
: 445      P 0437 1 MBK, 'BLOCKS',
: 446      P 0438 1 MBF, 'BUFFERS',
: 447      P 0439 1 MVR, 'VERSIONS',
: 448      P 0440 1
: 449      0441 1 ));
: 450      0442 1
: 451      0443 1
: 452      0444 1
: 453      0445 1
: 454      0446 1
: 455      P 0447 1 $STATE (ST_MTR_PRC_CAP,
: 456      P 0448 1
: 457      P 0449 1 DISPATCH_STATES
: 458      P 0450 1 (MTR,
: 459      P 0451 1
: 460      P 0452 1 CPL, 'LIMIT',
: 461      P 0453 1 CPS, 'SIZE',
: 462      P 0454 1
: 463      0455 1 ));
: 464      0456 1
: 465      0457 1
: 466      0458 1
: 467      0459 1
: 468      0460 1
: 469      P 0461 1 $STATE (ST_MTR_STA,
: 470      P 0462 1
: 471      P 0463 1 KEYWORD_STATE
: 472      P 0464 1 (MTR,
: 473      P 0465 1
: 474      P 0466 1 STAON, 'ON',
: 475      P 0467 1 STAOFF, 'OFF',
```


NCPSTAMTR
V04-000

X.25 Trace Module Parsing
SET X25-TRACE Module Parameters

E 16
16-Sep-1984 01:11:16
14-Sep-1984 12:48:31

VAX-11 Bliss-32 V4.0-742
[NCP.SRC]NCPSTAMTR.B32;1

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(9)

```
: 476      P 0468      1      ));  
: 477      0469      1  
: 478      0470      1  
: 479      0471      1      |  
: 480      0472      1      |      Tracing state  
: 481      0473      1      |  
: 482      0474      1  
: 483      P 0475      1      $STATE (ST_MTR_TST,  
: 484      P 0476      1  
: 485      P 0477      1      KEYWORD_STATE  
: 486      P 0478      1      (MTR,  
: 487      P 0479      1  
: 488      P 0480      1      TSTON, 'ON',  
: 489      P 0481      1      TSTOFF, 'OFF',  
: 490      P 0482      1  
: 491      0483      1      ));
```


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X.25 Trace Module Parsing
SET X25-TRACE Module Parameters

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```

: 493      0484 1
: 494      0485 1
: 495      0486 1
: 496      0487 1
: 497      0488 1
: 498      P 0489 1
: 499      P 0490 1
: 500      P 0491 1
: 501      P 0492 1
: 502      P 0493 1
: 503      P 0494 1
: 504      P 0495 1
: 505      P 0496 1
: 506      P 0497 1
: 507      P 0498 1
: 508      P 0499 1
: 509      P 0500 1
: 510      P 0501 1
: 511      0502 1

```

Process states

PROCESS_STATES
(MTR,

BSZ, 'SIZE',
CPL, 'LIMIT',
CPS, 'SIZE',
FNM,
MBK, 'BLOCKS',
MBF, 'BUFFERS',
MVR, 'VERSIONS',
STA, ,
TST, ,

)

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X.25 Trace Module Parsing
SET X25-TRACE Module Parameters

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:	513	0503	1	
:	514	0504	1	:
:	515	0505	1	:
:	516	0506	1	:
:	517	0507	1	:
:	518	P 0508	1	
:	519	P 0509	1	
:	520	P 0510	1	
:	521	P 0511	1	
:	522	P 0512	1	
:	523	P 0513	1	
:	524	P 0514	1	
:	525	P 0515	1	
:	526	P 0516	1	
:	527	P 0517	1	
:	528	P 0518	1	
:	529	0519	1)

Subexpression states

SUB EXPRESSIONS
(MTR,

BSZ, TPAS_DECIMAL,
CPL, TPAS_DECIMAL,
CPS, TPAS_DECIMAL,
FNM, (SE_FILE_ID),
MBK, TPAS_DECIMAL,
MBF, TPAS_DECIMAL,
MVR, TPAS_DECIMAL,


```
: 531      0520 1 %SBTTL 'CLEAR X25-TRACE Module Parameters'
: 532      0521 1
: 533      0522 1
: 534      0523 1
: 535      0524 1
: 536      0525 1
: 537      P 0526 1 $STATE (ST_CTR,
: 538      P 0527 1 ((ST_CTR_INIT))
: 539      0528 1 );
: 540      P 0529 1 $STATE (
: 541      P 0530 1 (TPAS_EOS, ST_CTR_PMT_DAT),
: 542      P 0531 1 (TPAS_LAMBDA, ST_CTR_DAT)
: 543      0532 1 );
: 544      0533 1
: 545      0534 1
: 546      0535 1
: 547      0536 1
: 548      P 0537 1 $STATE (ST_CTR_TPT,
: 549      P 0538 1 ((ST_CTR_INIT), ST_CTR_DAT_TPT)
: 550      0539 1 );
: 551      0540 1
: 552      0541 1
: 553      P 0542 1 $STATE (ST_CTR_INIT,
: 554      0543 1 (TPAS_LAMBDA, TPAS_EXIT, ACT$CLRLONG,,, TPT_PARAMS)); ! Assume trace-wide params
: 555      0544 1
: 556      0545 1
: 557      0546 1
: 558      0547 1
: 559      0548 1
: 560      0549 1
: 561      0550 1
: 562      0551 1
: 563      P 0552 1 $STATE (ST_CTR_PMT_DAT,
: 564      0553 1 (TPAS_LAMBDA,,, ACT$PRMPT,,, PMT$G_CTR_DAT));
: 565      0554 1
: 566      P 0555 1 $STATE (ST_CTR_DAT, ! Determine whether TRACEPOINT parameters
: 567      P 0556 1 ('TRACEPOINT', ST_CTR_DAT_TPT),
: 568      P 0557 1 ('KNOWN', ST_CTR_DAT_KWN),
: 569      0558 1 (TPAS_LAMBDA)); ! Else, assume TRACE-wide
: 570      0559 1
: 571      0560 1
: 572      0561 1
: 573      0562 1
: 574      0563 1
: 575      P 0564 1 $STATE (
: 576      P 0565 1 (TPAS_EOS), ! Start prompting if EOS
: 577      0566 1 (TPAS_LAMBDA, ST_CTR_PRC)); ! Else, try parsing parameters
: 578      0567 1
: 579      P 0568 1 QUERY_STATES
: 580      P 0569 1 (CTR,
: 581      P 0570 1
: 582      0571 1 ALL, STA, BSZ, MBK, FNM, MBF, CPL, MVR)
: 583      0572 1
: 584      P 0573 1 $STATE (
: 585      0574 1 (TPAS_LAMBDA, ST_CTR_DOIT));
: 586      0575 1
: 587      0576 1 !
```

```
: 588      0577 1 !      Prompt for tracepoint parameters
: 589      0578 1 !
: 590      0579 1 !
: 591      P 0580 1 $STATE (ST_CTR_DAT_TPT,
: 592      0581 1      (TPAS_LAMBDA,,, TRUE, TPT_PARAMS)); ! Remember that we are parsing
: 593      0582 1      ! tracepoint-specific parameters
: 594      P 0583 1 $STATE (
: 595      0584 1      ((SE_TRCPNT_NAME),, ACT$SAVPRM,,, PBK$G_CTR_TPT));
: 596      0585 1
: 597      P 0586 1 $STATE (ST_CTR_PMT_TPT,
: 598      0587 1      (TPAS_EOS), ! Start prompting if EOS
: 599      0588 1      (TPAS_LAMBDA,ST_CTR_PRC)); ! Else, try parsing parameters
: 600      0589 1
: 601      P 0590 1      QUERY_STATES_S
: 602      P 0591 1      (CTR,
: 603      P 0592 1
: 604      0593 1      ALL, ALL2, CPS, CPS, TST, TST)
: 605      0594 1
: 606      P 0595 1 $STATE (ST_CTR_DOIT,
: 607      P 0596 1      (TPAS_EOS, TPAS_EXIT, ACT$VRB_UTILITY, , , SDB$G_CTR),
: 608      0597 1      );
: 609      0598 1
: 610      0599 1 !
: 611      0600 1 !      Dispatch on KNOWN keyword during prompting
: 612      0601 1 !
: 613      0602 1
: 614      P 0603 1 $STATE (ST_CTR_DAT_KWN,
: 615      0604 1      (TPAS_LAMBDA));
: 616      0605 1
: 617      P 0606 1      COMMAND PROMPT
: 618      P 0607 1      (CTR, KWN, NCPS_INVKEY,
: 619      P 0608 1
: 620      P 0609 1      ('TRACEPOINTS', ST_CTR_PMT_TPT, ACT$SAVPRM,,, PBK$G_CTR_KTP),
: 621      0610 1      )
```



```

: 623      0611 1
: 624      0612 1
: 625      0613 1
: 626      0614 1
: 627      0615 1
: 628      0616 1
: 629      P 0617 1 $STATE (ST_CTR_PRC,
: 630      P 0618 1 (TPAS_LAMBDA, ST_CTP_PRC, ACT$TESTLONG,,, TPT_PARAMS),
: 631      0619 1 (TPAS_LAMBDA));
: 632      0620 1
: 633      0621 1
: 634      0622 1
: 635      0623 1
: 636      0624 1
: 637      0625 1
: 638      P 0626 1 $STATE (,
: 639      P 0627 1
: 640      P 0628 1 DISPATCH_STATES
: 641      P 0629 1 (CTR,
: 642      P 0630 1
: 643      P 0631 1 ALL, 'ALL',
: 644      P 0632 1 BSZ, 'BUFFER',
: 645      P 0633 1 CAP, 'CAPTURE',
: 646      P 0634 1 FNM, 'FILE',
: 647      P 0635 1 MAX, 'MAXIMUM',
: 648      P 0636 1 STA, 'STATE',
: 649      P 0637 1 )
: 650      P 0638 1
: 651      P 0639 1 (TPAS_EOS, ST_CTR_DOIT)
: 652      0640 1 );
: 653      0641 1
: 654      0642 1
: 655      0643 1
: 656      0644 1
: 657      0645 1
: 658      P 0646 1 $STATE (ST_CTP_PRC,
: 659      P 0647 1
: 660      P 0648 1 DISPATCH_STATES
: 661      P 0649 1 (CTR,
: 662      P 0650 1
: 663      P 0651 1 ALL, 'ALL',
: 664      P 0652 1 CAP, 'CAPTURE',
: 665      P 0653 1 TST, 'STATE',
: 666      P 0654 1 )
: 667      P 0655 1
: 668      P 0656 1 (TPAS_EOS, ST_CTR_DOIT)
: 669      0657 1 );
```

```
: 671      0658 1
: 672      0659 1
: 673      0660 1      Dispatch on KNOWN keyword
: 674      0661 1
: 675      0662 1
: 676      P 0663 1 $STATE (ST_CTR_PRC_KWN,
: 677      0664 1      ((SE_CTR_KWN), ST_CTR_PRC));
: 678      0665 1
: 679      P 0666 1 $STATE (SE_CTR_KWN,
: 680      P 0667 1
: 681      P 0668 1      KEYWORD_STATE
: 682      P 0669 1      (CTR,
: 683      P 0670 1
: 684      P 0671 1      KTP, 'TRACEPOINTS',
: 685      P 0672 1
: 686      0673 1      ));
: 687      0674 1
: 688      0675 1
: 689      0676 1      Dispatch on MAXIMUM keyword
: 690      0677 1
: 691      0678 1
: 692      P 0679 1 $STATE (ST_CTR_PRC_MAX,
: 693      P 0680 1
: 694      P 0681 1      DISPATCH_STATES
: 695      P 0682 1      (CTR,
: 696      P 0683 1
: 697      P 0684 1      MBK, 'BLOCKS',
: 698      P 0685 1      MBF, 'BUFFERS',
: 699      P 0686 1      MVR, 'VERSIONS',
: 700      P 0687 1
: 701      0688 1      ));
: 702      0689 1
: 703      0690 1
: 704      0691 1      Dispatch on CAPTURE keyword
: 705      0692 1
: 706      0693 1
: 707      P 0694 1 $STATE (ST_CTR_PRC_CAP,
: 708      P 0695 1
: 709      P 0696 1      DISPATCH_STATES
: 710      P 0697 1      (CTR,
: 711      P 0698 1
: 712      P 0699 1      CPL, 'LIMIT',
: 713      P 0700 1      CPS, 'SIZE',
: 714      P 0701 1
: 715      0702 1      ));
```


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X.25 Trace Module Parsing
CLEAR X25-TRACE Module Parameters

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```

: 717      0703 1
: 718      0704 1
: 719      0705 1
: 720      0706 1
: 721      0707 1
: 722      P 0708 1
: 723      P 0709 1
: 724      P 0710 1
: 725      P 0711 1
: 726      P 0712 1
: 727      P 0713 1
: 728      P 0714 1
: 729      P 0715 1
: 730      P 0716 1
: 731      P 0717 1
: 732      P 0718 1
: 733      P 0719 1
: 734      P 0720 1
: 735      P 0721 1
: 736      P 0722 1
: 737      0723 1

```

Process states

PROCESS_STATES
(CTR,
ALL, ,
BSZ, 'SIZE',
CPL, 'LIMIT',
CPS, 'SIZE',
FNM,
MBK, 'BLOCKS',
MBF, 'BUFFERS',
MVR, 'VERSIONS',
STA, ,
TST, ,
)

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X.25 Trace Module Parsing
CLEAR X25-TRACE Module Parameters

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```
: 739      0724  1
: 740      0725  1
: 741      0726  1
: 742      0727  1
: 743      0728  1
: 744      P 0729  1
: 745      P 0730  1
: 746      P 0731  1
: 747      P 0732  1
: 748      P 0733  1
: 749      P 0734  1
: 750      P 0735  1
: 751      P 0736  1
: 752      P 0737  1
: 753      P 0738  1
: 754      P 0739  1
: 755      P 0740  1
: 756      P 0741  1
: 757      P 0742  1
: 758      P 0743  1
: 759      0744  1
```

Subexpression states

SUB EXPRESSIONS
(CTR,

ALL, TPAS_EOS,

BSZ, TPAS_LAMBDA,
CPL, TPAS_LAMBDA,
CPS, TPAS_LAMBDA,
FNM, TPAS_LAMBDA,
MBK, TPAS_LAMBDA,
MBF, TPAS_LAMBDA,
MVR, TPAS_LAMBDA,
STA, TPAS_LAMBDA,
TST, TPAS_LAMBDA,

)

:	761	0745	1	%SBTTL	'Define Subexpressions'	
:	762	0746	1			
:	763	0747	1	:		
:	764	0748	1	:		
:	765	0749	1	:	Define Subexpressions from Library	
:	766	0750	1	:		
:	767	0751	1		SEM_ALL	: All parameter
:	768	0752	1		SEM_FILE_ID	: File name
:	769	0753	1		SEM_LINE_ID	: For tracepoint name
:	770	0754	1		SEM_QUERY	: Query state subexpressions
:	771	0755	1		SEM_TRCPNT_NAME	: Tracepoint name

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X.25 Trace Module Parsing
Define Subexpressions

: 773
: 774

0756 1 END
0757 0 ELUDOM

C 1
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